StorCase® Technology

Data Express®
DE110

Removable
SATA-to-USB 2.0
Drive Enclosure

User's Guide

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SATA-to-USB 2.0
Drive Enclosure

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Part No. D89-0000-0285 A00 April 2005

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StorCase TECHNOLOGY

Safest Place for Your Data®

Declaration of Conformity

Company Name:	StorCase Technology, Inc.
Corporate Office Address:	17600 Newhope Street Fountain Valley, CA 92708
Manufacturing Address:	17600 Newhope Street Fountain Valley, CA 92708
Product Name:	Data Express SATA-to-USB 2.0 DE110
Model Number:	S21J102, S21J105, S21J122, S21J124

Conforms to the following standards:

EMC Directives: **(89/336/EEC)**	ITE Emission - EN 55022: 1998+A1+A2 - EN 61000-3-2 Harmonic Current - EN 61000-3-3 Voltage Fluctuations and Flicker EN 55024: 1998+A1+A2 ITE Immunity - IEC 61000-4-2 - IEC 61000-4-5 - IEC 61000-4-3 - IEC 61000-4-6 - IEC 61000-4-4 - IEC 61000-4-8 - IEC 61000-4-11
Safety Standards: **CSA (NRTL/C)**	CAN/CSA-C22.2 No. 950-95 UL 1950
TUV	EN 60950: 2000
EMI Standards:	FCC Part 15, Class B
EMC Standards:	AS/NZS 3548 Information Technology Equipment Supplier's Code Number N10664
Year of Manufacture:	2005

Signature:_____

Full name: Dieter Paul

Position: President

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NOTICE: This User's Guide is subject to periodic updates without notice. While reasonable efforts have been made to ensure the accuracy of this document, StorCase Technology, Inc. assumes no liability resulting from errors or omissions in this publication, or from the use of the information contained herein.

Please check the StorCase web site at http://www.storcase.com or contact your StorCase representative for the latest revision of this document.

INTRODUCTION

Packaging Information

The StorCase Technology Data Express® system is shipped in a container designed to provide protection and prevent damage during shipment. The Data Express unit was carefully inspected before and during the packing procedure at the factory. Bent or broken connectors, or evidence of other damage to the Data Express should be reported to the shipper immediately. Refer to Figure 1 for the package contents.

If the wrong Data Express model has been received, please call your reseller or StorCase at (800) 435-0642 to arrange for a Return Material Authorization (RMA). StorCase cannot accept returns which do not display an RMA number on the outside of the package. Return the unit with all the original packing materials.

Before removing any component from its packaging, discharge any static electricity by touching a properly grounded metal object.

Serial Numbers

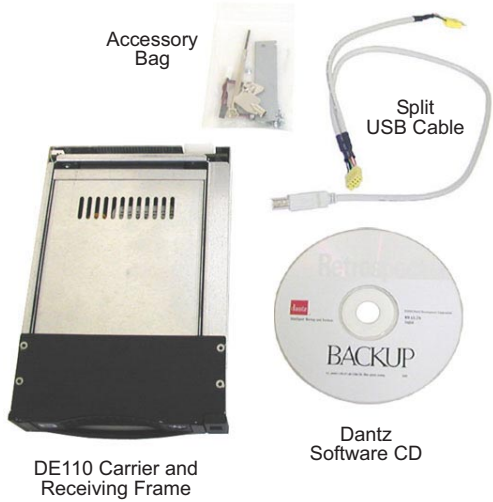
Both the DE110 receiving frame and carrier are labeled with serial numbers. These numbers must be reported to the StorCase Customer Service Representative in order to receive a Return Material Authorization (RMA) for warranty claims. Locate the serial number labels and record the numbers in the spaces provided below.

Receiving Frame: _____

Device Carrier: _____

Package Contents

The SATA-to-USB 2.0 DE110 package contents include the following items. If any item is missing or damaged, contact your StorCase dealer for a replacement.



Data Express SATA-to-USB 2.0 Removable Enclosure	Carrier & Rec. Frame	Carrier Only	Rec. Frame Only
SATA Drive Carrier	1	1	
"Universal" Receiving Frame	1		1
Drive Cover	1	1	
#6-32 Phillips Machine Hd. Screws	4		4
#6-32 Phillips Flat Hd. Screws	4	4	
Activity Indicator Cable	1	1	
Alignment Tool	1		1
Drive Lock Keys	1 Set	1 Set	
Split USB Cable	1		1
Dantz Backup Software CD	1		
Insert Sheet	1	1	1

Figure 1: Package Contents

General Description

NOTES: The SATA-to-USB 2.0 DE110 "universal" receiving frame (indicated by the BLUE LED) will accept both PATA (supports both USB 1.1 and USB 2.0) and SATA (supports only USB 2.0) DE110 carriers.

SATA DE110 "universal" receiving frames (also indicated by a BLUE LED) will also accept SATA-to-USB 2.0 DE110 carriers.

For USB 2.0 operation, a USB 2.0 controller and USB cable (provided) are required.

Windows® 2000/XP both support USB 2.0. For Windows® 98, a driver download is required (at: **http://www.storcase.com/support/firmware.asp**).

The StorCase Technology SATA-to-USB 2.0 **Data Express® DE110** is a removable drive carrier and receiving frame, designed to provide durable and reliable mounting for one (1) low-profile (up to 1" high) 3.5" Serial ATA drive within a 5.25" half-height peripheral slot (Figure 2).

The SATA-to-USB 2.0 DE110 allows a SATA or PATA drive to be removed and transported to another SATA-to-USB 2.0 DE110-equipped computer or expansion chassis, and also provides the ability to secure sensitive data by removing and storing the drive safely for future use. The DE110 incorporates a "universal" receiving frame , capable of use with either a SATA (provided) or PATA DE110 drive carrier!

The SATA-to-USB 2.0 DE110 includes a Dantz® Retrospect® Backup software CD, which allows for easy data backup and restoration.

Figure 2: SATA-to-USB 2.0 DE110 Receiving Frame and Carrier

This User's Guide describes the steps required to install the DE110 removable enclosure inside a computer peripheral bay or external expansion chassis. This guide supplements documentation provided with the host computer system, operating system, and the drive to be installed within the carrier.

"Universal" Receiving Frame Front Panel

(Figures 3A & 3B)

- **Unit ID Number Indicator** (Figures 3A & 3B) - *This LED is for ID display purposes only.* This BLUE LED displays the status of the DE110 device carrier if the carrier is *Installed and Locked* in the receiving frame *or* if the carrier is *removed* from the receiving frame. If the carrier is *Installed but not Locked* in the receiving frame, a "u" will be displayed to indicate an unlocked condition. The unit ID number is selected by means of the unit ID select switch on the front of the receiving frame using a special alignment tool supplied with the DE110 (Figure 13 & Table 1).

- **The Activity Indicator** (Figures 3A & 3B) - A small BLUE dot next to the unit ID number illuminates to indicate when the host computer is accessing the data on the DE110 carrier. This dot will flash during communication with the host computer.

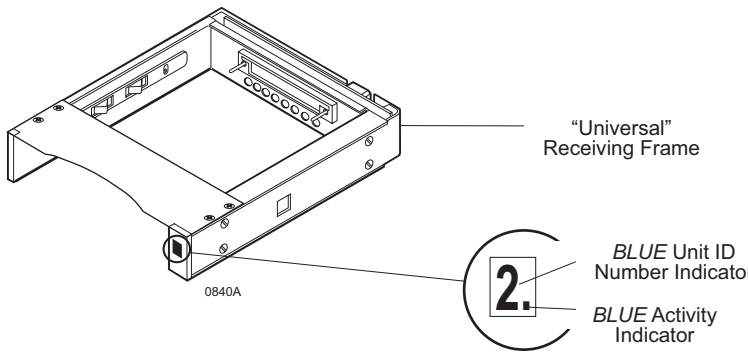


Figure 3A: "Universal" Receiving Frame Front Panel

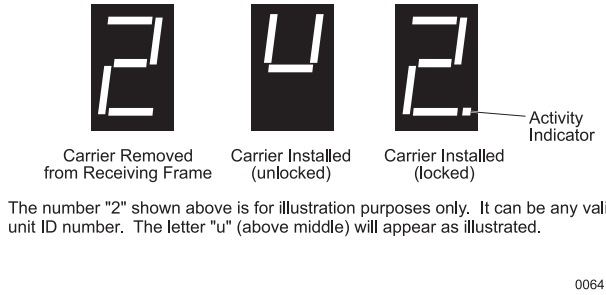

Activity Indicator
Carrier Removed from Receiving Frame
Carrier Installed (unlocked)
Carrier Installed (locked)
The number "2" shown above is for illustration purposes only. It can be any valid unit ID number. The letter "u" (above middle) will appear as illustrated.
0064

Figure 3B: Receiving Frame Unit ID Number and Activity Display

SATA Drive Carrier

(Figure 4)

- **Key Lock/Drive Power Switch** (Figure 4) - Performs three functions. The key switch assures proper seating of the drive carrier within the receiving frame, turns power to the drive carrier ON and OFF, and prevents unauthorized removal or installation of the carrier. For the computer to access data on the disk drive, the key must be turned counterclockwise to the locked position.

  NOTE: Disable USB device on host computer desktop before turning OFF power (simply right-click on the "Unplug/Eject Hardware" Icon located in the System Tray and "disconnect").

- **JP1** (Figure 4) - Provides a signal to the Activity Indicator (Figures 3A & 3B) when connected via cable (provided) to the SATA drive. Some SATA drives provide support for the Activity Indicator feature (refer to the SATA drive manufacturer's documentation for further information).

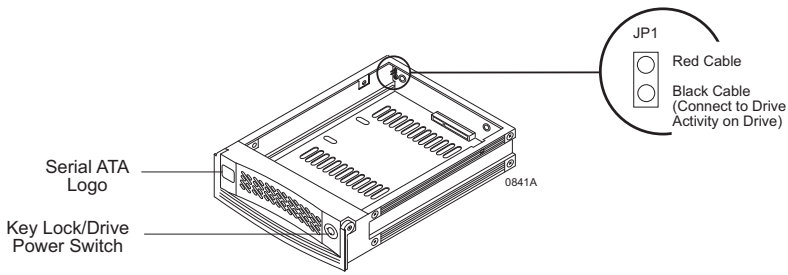


Figure 4: SATA Drive Carrier

Receiving Frame Rear Panel

(Figures 5A & 5B)

- **USB Connector** - Provides a standard interface for USB 2.0 signals.
- **DC Power Connector (P1) -** A standard 4-pin DC power connector is used to accept DC power.
- **Option Pins (W1)** - Refer to Figure 5B.

  ID0 & ID1 - Jumper is factory-installed on ID0. Change jumper position to Pins 3 & 4 for ID1 designation. *ID0 & ID1 are for ID display purposes only.* Refer to Table 1 for further information.

  Remote Activity LED (RLED) - For PATA drives, these pins provide power for a remote LED device activity indicator (Pin 13=Cathode, Pin 14=Anode).
- **Factory Reserved Pins -** These pins are reserved for factory use only - Do not install jumper under any circumstances!

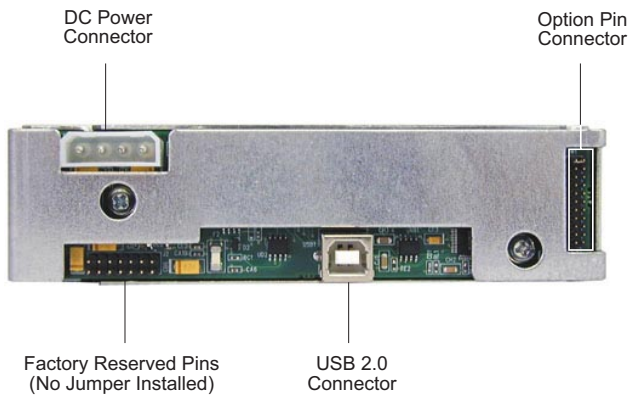


Figure 5A: Receiving Frame Motherboard (Rear View)

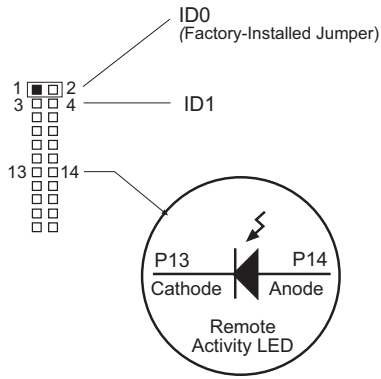


Figure 5B: Enlarged View of the Option Pins

INSTALLATION

NOTES: The SATA-to-USB 2.0 DE110 "universal" receiving frame (indicated by the BLUE LED) will accept both PATA (supports both USB 1.1 and USB 2.0) and SATA (supports only USB 2.0) DE110 carriers.

SATA DE110 "universal" receiving frames (also indicated by a BLUE LED) will also accept SATA-to-USB 2.0 DE110 carriers.

For USB 2.0 operation, a USB 2.0 controller and USB cable (provided) are required.

Windows® 2000/XP both support USB 2.0. For Windows® 98, a driver download is required (at: **http://www.storcase.com/support/firmware.asp**).

Preparation

NOTE: A #2 Phillips screwdriver will be required during this procedure.

While performing the steps in this section, work on a soft surface to prevent excessive shock to the drive being installed. Also refer to the manufacturer's documentation provided with the drive.

1. Remove the drive from its protective packaging.
2. **Plastic Drive Bezel:** If the drive came equipped with a plastic front bezel, it must be removed before installing the drive into the drive carrier.

Installing the Drive into the Carrier

1. Carefully insert the drive into the carrier. Slide the drive towards the Drive Carrier Board, so that the I/O connector on the drive mates with the connector on the Drive Carrier Board (Figure 6). Turn the drive/carrier assembly over.

2. Fasten the drive into place with four (4) #6-32 Phillips Flat Hd. screws (Figure 6). Some drives may require minor adjustment before securing into carrier with screws.

   If drive supports the Activity Indicator feature, connect one end of the Activity Indicator Cable (provided) to the drive and the other end to JP1 located on Drive Carrier Board (Figures 4 & 6).

   NOTE: Some SATA drives provide support for the Activity Indicator feature (refer to the SATA drive manufacturer's documentation for further information).

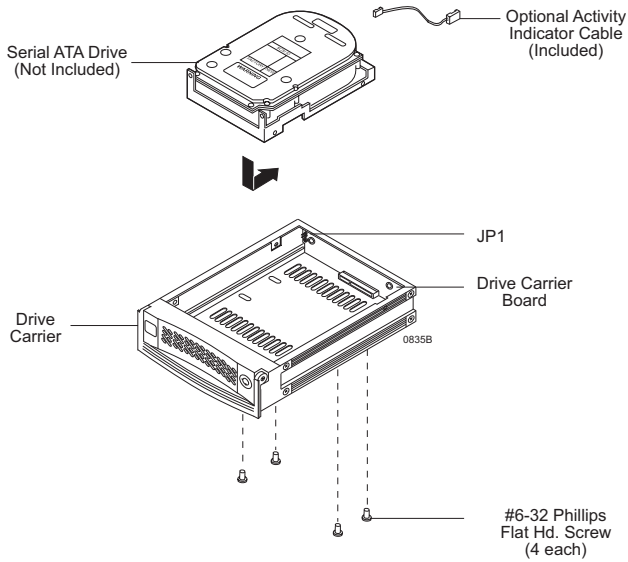


Figure 6: Drive Installation Assembly

3. Install the provided drive cover (Figure 7).

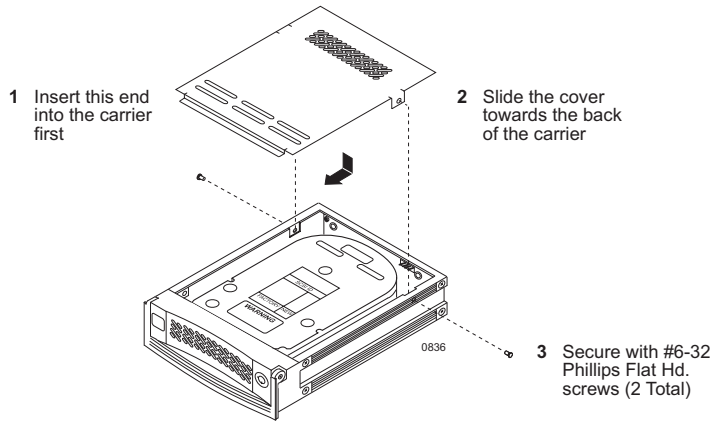

1 Insert this end into the carrier first
2 Slide the cover towards the back of the carrier
3 Secure with #6-32 Phillips Flat Hd. screws (2 Total)
0836

Figure 7: Drive Cover Installation

"Universal" Receiving Frame

The SATA-to-USB 2.0 DE110 "universal" receiving frame will accept both PATA and SATA (provided) DE110 carriers.

The SATA DE110 carrier will only support USB 2.0. The PATA DE110 carrier will support both USB 1.1 and USB 2.0.

Installing the Receiving Frame

NOTES: Use a #2 Phillips screwdriver for this procedure.

Refer to your system motherboard manufacturer's documentation for further information.

The drive should be installed into the carrier before installing the receiving frame into the mounting bay of a computer or expansion chassis.

1. Turn OFF power to the computer.

2. Open the computer system according to the manufacturer's instructions. If necessary, temporarily remove any expansion boards that may make installation difficult.

3. Locate the USB connector(s) on the system motherboard (refer to your system motherboard manufacturer's documentation for further information).

   Depending on your system motherboard, it may have one or more 9-Pin USB connectors (with one typically connected to front USB ports on the PC), or it may have only a 4-Pin USB connector.

   If your system motherboard has several 9-Pin USB connectors, proceed to Step 4.

   If your system motherboard has only one 9-Pin USB connector, proceed to Step 5.

   If your system motherboard has only a spare 4-Pin USB connector (instead of 9-Pin), proceed to Step 6.

4. Locate a spare 9-Pin USB connector on the system motherboard and connect the female connector on the split USB cable (provided) to it (Figures 8 & 11).

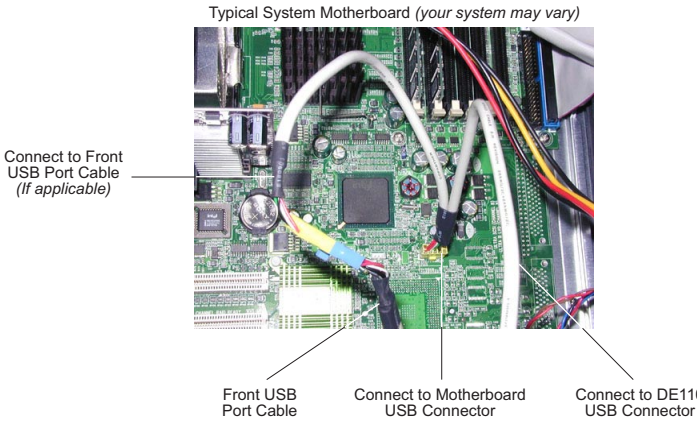

Typical System Motherboard (your system may vary)
Connect to Front USB Port Cable (If applicable)
Front USB Port Cable
Connect to Motherboard USB Connector
Connect to DE110 USB Connector

Figure 8: Connecting the Split USB Cable to the System

5. If your system motherboard has only one 9-Pin USB connector and it is connected to the front USB ports (Figure 9), disconnect the front USB port cable from the system motherboard USB connector (refer to your system motherboard manufacturer's documentation for further information).

   Connect the female connector on the split USB cable (provided) to the newly vacated USB connector located on the system motherboard (Figures 8 & 11).

   If applicable, connect the male connector on the split USB cable to the front USB port cable (Figures 8 & 11). Make sure the red wires on both cables are correctly aligned.

   NOTE: Connecting the DE110 to the system motherboard's only USB connector will disable one of the front USB ports (if applicable). Only the lower (or second) USB port will still function while the DE110 is installed (Figure 9).

6. If your system motherboard has only a spare 4-Pin USB connector, connect the female connector on the split USB cable (provided) to it. The female connector on the split USB cable has two rows of wires, a 5-wire row and a 4-wire row. Make sure to connect the 5-wire row to the system motherboard's 4-Pin USB connector (refer to your system motherboard manufacturer's documentation for further information).

   NOTE: When connecting the 5-wire row to the 4-pin USB connector, make sure that the wires on the cable correspond to the appropriate pins (refer to your system motherboard manufacturer's documentation for information on pin assignments).

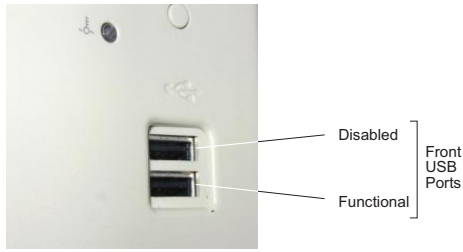


Figure 9: Typical Front USB Interface
(Your system may vary)

7. With the drive carrier locked in place inside the receiving frame, install the DE110 into the 5.25" drive opening in the computer or expansion chassis. Use the appropriate guides to position the Data Express, and fasten it into place with the four (4) #6-32 Phillips screws provided. Figure 10 illustrates the location of the mounting holes. Mounting holes are provided on each side and the bottom of the receiving frame to accommodate a variety of mounting configurations. Use the mounting holes which best suit the computer or expansion chassis configuration. Note that bottom mounting holes require self-tapping screws (not provided).

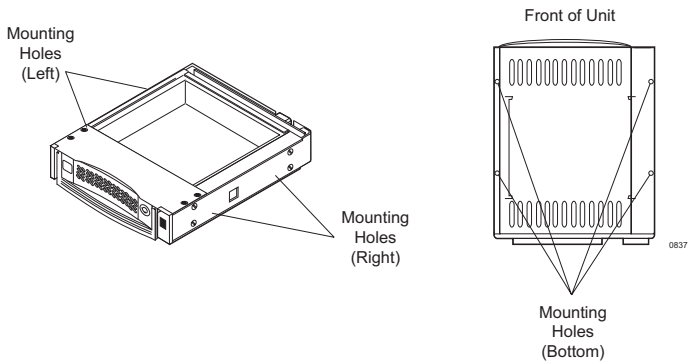
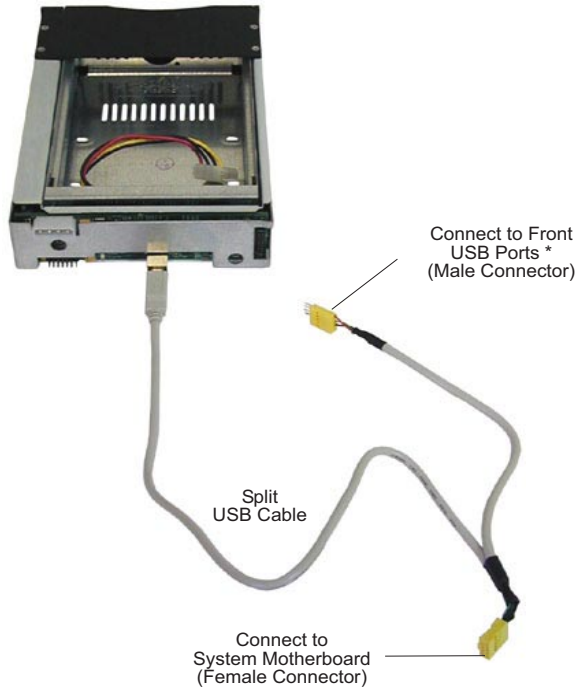


Figure 10: Receiving Frame Mounting Holes

8. Adjust the front of the receiving frame so the carrier slides freely in and out on the receiving frame guides. The position of adjoining peripheral units may require adjustment.

9. Connect the remaining end of the split USB cable to the DE110 USB connector located on the receiving frame motherboard (Figures 5 & 11).



* *Optional* (refer to Step 5 for further information)

Figure 11: Connecting the Split USB Cable

Spacer Plates (Optional)

NOTE: Depending on the computer system, spacer plates may be positioned on the receiving frame to utilize either top or bottom row of side-mounting holes (Figure 12).

The DE110 is designed to fit most computer systems with standard 5.25" peripheral slots. The installation of the spacer plates (provided) may or may not be necessary.

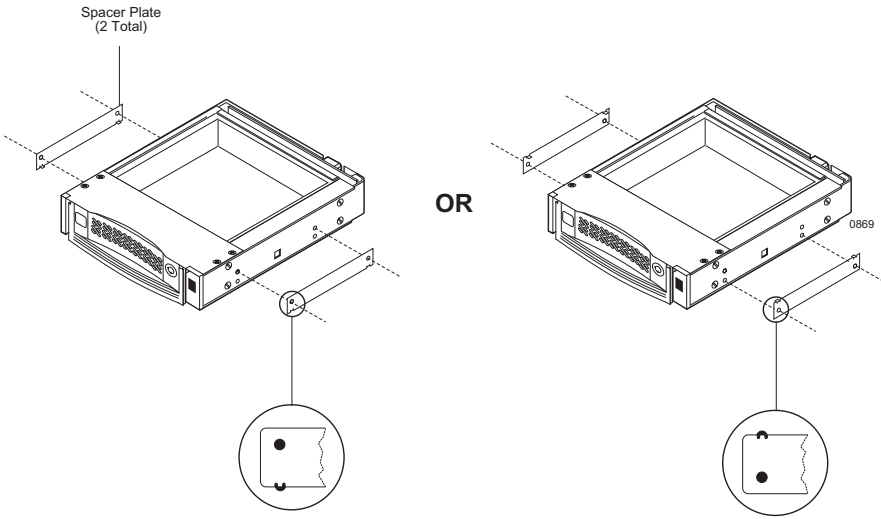


Figure 12: Spacer Plate Installation (Optional)

10. Connect the power cable from the DC power supply in the computer or expansion chassis to the power connector on the DE110 receiving frame. Refer to Figure 5A for the DE110 receiving frame power connector location.

11. Replace any expansion boards that may have been removed earlier. Replace the system cover according to the manufacturer's instructions.

12. Reconnect any system or peripheral cables removed earlier.

13. Turn ON power to the computer. If the installation has been successful, and all the cables have been properly attached, the system should boot normally. Although the computer may not recognize the DE110 yet, the front panel display on the DE110 receiving frame should illuminate.

14. The new drive may need to be formatted or initialized prior to use with the operating system and applications software. Refer to the drive and/or computer manufacturer's documentation for formatting information.

Selecting the Unit ID Number

1. Verify that power is turned ON to the DE110 receiving frame by turning on your computer. A number will appear in the unit ID display window if the carrier is locked in place.

2. Unlock the DE110 drive carrier and remove it from the receiving frame. A "u" will be displayed initially when the unit is unlocked but will return to a number when the carrier is removed from the receiving frame.

   WARNING: Unlocking the carrier unit switches DC power OFF to the drive. Since disk drives require a short amount of time to spin down, allow about 15 seconds before pulling the carrier unit out of the receiving frame to avoid possible damage to the drive.

3. Use the alignment tool supplied with the DE110 to select the ID number of the disk drive. Refer to Figure 13 for the location of the ID Select Switch inside the receiving frame. Table 1 lists the valid unit ID numbers available for the drive.

   NOTE: The unit ID number display is for ID display purposes only. The Master/Slave setting must still be set on the drive itself (refer to page 8 of this User's Guide for further information).

4. After you have selected an appropriate unit number, replace the DE110 carrier in the receiving frame, and **LOCK IT IN PLACE**.

   NOTE: The lock on the DE110 carrier functions as a lock and a DC power switch for the carrier unit. The lock must be engaged in order to supply power to the carrier and installed drive.

5. Reboot the computer. The new disk is now ready for use, although it may have to be formatted or initialized prior to use with your operating system and applications software.

   NOTE: Disable USB device on host computer desktop before turning OFF power (simply right-click on the "Unplug/Eject Hardware" Icon located in the System Tray and "disconnect").

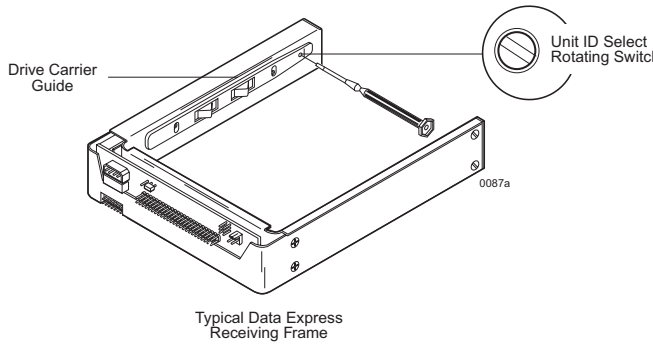


Figure 13: Unit ID Select Switch Location

Unit ID Select Switch Settings

NOTE: The unit ID number display is for ID display purposes only.

The following table lists the Unit ID Select Switch settings. Please note that all invalid switch settings will result in a blank display in the receiving frame display window.

Table 1: Unit ID Select Switch Settings

Unit ID Select Position	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Unit ID Number Display	Blank	0	1	Blank	Blank	2	3	Blank	Blank	Blank

Data Backup and Restoration

NOTE: The SATA-to-USB 2.0 DE110 includes a Dantz® Retrospect® Backup software CD.

For easy data backup and restoration, please refer to the Dantz User's Guide provided on the Dantz Retrospect Backup software CD.

APPENDICES

Appendix A - Specifications/Dimensions

The specifications and dimensions below are for reference only.

Environmental Specifications	Operating	Storage
Ambient Temperature	0° C to 50° C	-40° C to 70° C
Relative Humidity (1)	10% to 80%	10% to 90%
Altitude	-1000 to 10,000 ft	-1000 to 40,000 ft
	-305m to 3048m	-305m to 12195m
Shock (2)	10g	60g

(1) Non-condensing with maximum gradient of 10% per hour.
(2) 11 msec pulse width 1/2 sine wave.

Physical Specifications	Carrier	Receiving Frame
Height	1.52" (38.6mm)	1.61" (40.9mm)
Width	4.73" (120.1mm)	5.81" (147.6mm)
Depth	7.94" (201.7mm)	8.94" (227.1mm)
Weight	1.3lb (0.59kg)	1.4lb (0.64kg) (1)

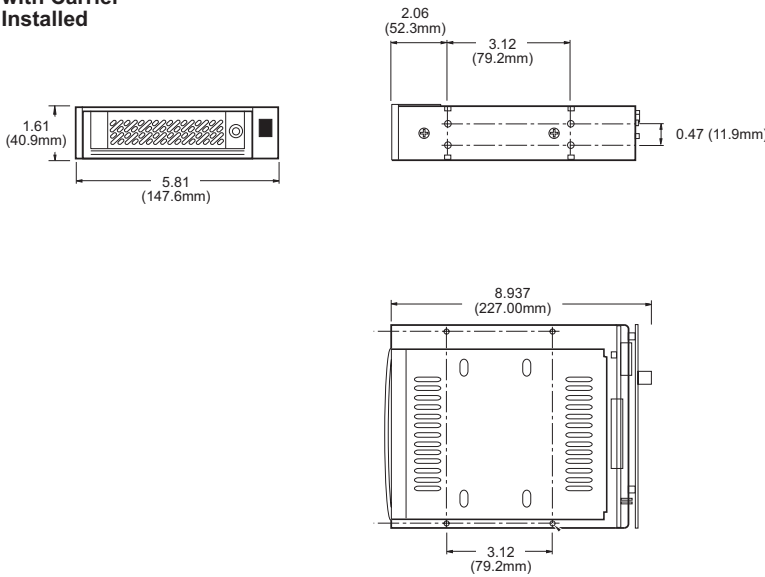
(1) With carrier removed.

Chassis Reliability/Maintainability	
MTBF	500,000 Hours
MTTR	5 minutes
Preventive Maintenance	None

Electrical Specifications		
Input	+5V	230mA
	+12V	620μA

Compliance	USB 2.0 & ATA/ATAPI-6
Max. Transfer Rate	Up to 480 Mbps
Max. Cable Length	6 ft. per USB device

Receiving Frame with Carrier Installed



Carrier Only

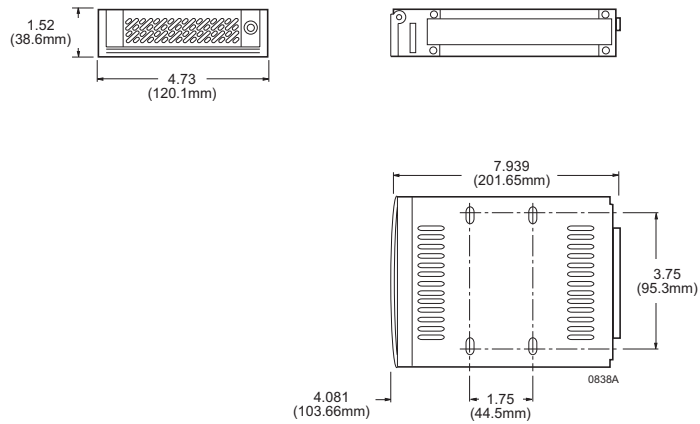


Figure A-1: SATA-to-USB 2.0 DE110 Physical Dimensions (Dimensions are for reference only)

Appendix B - Optional Accessories

Carrying Case

Figure B-1: Carrying Case

The optional molded plastic carrying case is designed to transport one (1) DE110 carrier from one site to another in a safe, impact and moisture-resistant environment. Its compact dimensions, 10” long x 11” wide x 4.5” high, make it easy to carry and to store. The foam lining is contoured to fit a single Data Express carrier. Contact your StorCase dealer for further details and ordering information.

Reader's Comments

Please take a few moments when your computer system is up and running to send us your ideas and suggestions for improving our products and documentation. Did the installation go smoothly for you? Are there any changes you would like us to make, either with the hardware itself, or with the installation instructions? Everyone at StorCase Technology is working toward the goal of providing you with the highest quality, most cost effective, products available on the market, and we need your comments to guide our efforts. We look forward to hearing from you soon!

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